

METHOD AND APPARATUS FOR TRANSMITTING DTX\_LOW STATE  
INFORMATION FROM MOBILE STATION TO BASE STATION

ABSTRACT OF THE DISCLOSURE

A method for operating a mobile station that includes the steps of, prior to transmitting a burst in a last frame before entering a discontinuous transmission (DTX) mode, generating a message word that indicates that the mobile station is about to enter the DTX mode; using a predetermined generator polynomial to produce an error detection word from the message word; and combining the message word and the error detection word into a DTX Trailer word. The method further includes the steps of convolutionally encoding the DTX Trailer word; interleaving the DTX Trailer word with unused bits of a slot containing a speech or a signalling word; and transmitting the interleaved DTX Trailer word to a base station. In a presently preferred embodiment the message word has a length of eight bits, the error detection word is an eight bit CRC that is appended to the message word to form the DTX Trailer word, and the DTX Trailer word is error protected using a rate 1/8 convolutional encoder. The mobile station may periodically combine a Comfort Noise Parameter message with a MAHO-related Channel Quality Measurement message and transmit the combined messages to the base station while in the DTX\_Low state.